

## UNVEIL LIKENESS OF FIRST WOMAN GRADUATE TODAY

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Richards '68

TAUGHT FOR 30 YEARS

Bas-relief by Miss Bashka Paeff  
is to be Unveiled by  
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A bas-relief of Mrs. Ellen H. Richards '73, the first woman to be graduated from Technology, and a member of the instructing staff for more than thirty years, will be unveiled at Technology this afternoon.

Mrs. Richards, who died in 1911, was the wife of Professor Emeritus Robert H. Richards '68, formerly head of the Department of Mining and Metallurgy, who will unveil the bas-relief, the work of Miss Bashka Paeff. Mrs. Richards was graduated from Vassar in 1870 and from Technology in 1873.

The work which brought her fame throughout the world as an authority on sanitary chemistry was outstanding in its contribution to knowledge of household economics in which she was a pioneer. Her studies in food chemistry and public health attracted wide attention, and she carried out an extensive survey of the water supply of the state.

### Is Gift Of Alumni

This memorial will be unveiled at 4 o'clock this afternoon in the presence of many of Mrs. Richards' colleagues and former students. The bas-relief is a gift to Technology from Alumni. Francis Stern '16 is chairman of the Alumni Committee, which includes among its members Everett Morse '85, Professor Augustus H. Gill '84, Gretchen A. Palmer '18, Professor Samuel C. Prescott (Continued on Page 4)

## December Review Is On Sale Today

Travel Story by Acting Dean  
Harold E. Lobdell is  
One Feature

In the fiftieth issue of the "Technology Review" since the editorship was taken over by Acting Dean Harold E. Lobdell '17, Professor Edwin B. Wilson, who was for five years the head of the Department of Physics at the Institute, presents a discussion of his experiences since that time.

He says that the methods of teaching these sciences in the colleges of the United States is decidedly deficient, in that the general principles are neglected in the rush to teach specific detail. Most colleges, in his opinion, do not devote enough time to their Science courses, and neglect to sum up the general principles. Physics courses should be distributed over the whole four years, and the instructors should try to show to the students the fascinating side of Physics, the marvelous correlation of physical phenomena. He relates the two sciences, physics and medicine, and shows the need for medical instructors' complete knowledge of physics.

### Tells of California Trip

"Gravel and Gumbo" is the log of Acting Dean Lobdell's auto trip to California, which he took with his mother this past summer. Expense accounts and a diary of the trip were accurately kept, and the whole story, besides its general interest, furnishes a number of helpful pointers to the uninitiate in long distance touring. Accompanying the article are many photographs of the journey.

Relating the purposes of a modern college infirmary to the new Homberg Memorial at the Institute, Dr. Haven Emerson of Columbia University gives an account of the dedication of this new addition to Technology. Dr. Emerson was the chief speaker at the dedication, and his article, "Why an Infirmary," contains the salient points in his speech.

### Prominent Speakers Who Addressed Students Last Week at Technology



Clarence Barrow



Georges Claude

## Dr. Tryon Visits Many Colleges In Southern States

### Desire to Establish a Closer Relation with Schools Prompts Action

With the intention of showing some of the Southern schools and colleges the many opportunities offered at Technology and aiding those of their students who plan to attend the Institute, Professor James L. Tryon, Chairman of the Board of Admissions, is making a tour in the south. Professor Tryon left Boston November 10 and expects to be back December 16.

President Samuel W. Stratton in a letter to the universities which our "good-will ambassador" is visiting said: "It is the desire of the Massachusetts Institute of Technology to come into closer relations with the colleges and universities from which it receives students by transfer for post-graduate work. It hopes to facilitate their admission by furnishing them with information and advice in regard to their choice of subjects to be offered for credit, to help them in planning to make up deficiencies, if they have any, by taking summer work, and in general to enable them to carry out their post-graduate program with the least possible expense and delay."

It is with this idea in mind that Professor Tryon is visiting these colleges. His itinerary includes thirteen schools in Virginia, three in North Carolina, three in South Carolina, four in Georgia, and four in Tennessee.

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### Members Can Check Investment Holdings at Meeting

Corporation XV will hold its monthly meeting on Wednesday at the Grill Room in Walker at 6 o'clock. Dinner will be served and the program will conclude promptly at 7:45 o'clock. There will be a few announcements after dinner followed by the main event of the evening, a talk by Mr. Edward C. Johnson.

The business men will be addressed on "Twenty-five Years of Experience in Business" by Mr. Edward C. Johnson, president of the H. A. Johnson Company of Boston. Corporation XV guarantees everyone of its members an unusually interesting time at the meeting Wednesday, for it was the opinion of many that the last time he spoke was the best of all their meetings. Mr. E. C. Johnson is a past president of the Chamber of Commerce and is one of the most prominent business engineers in the country.

Members are asked to mail in the cards which they were sent or reserve their places by calling at Room 1-180 immediately. The investment holdings of the members will be complete in the record book and the members can check up on their holdings and discover the profits and losses they have experienced in the past.

## FLYING CLUB WILL COMPLETE REPAIRS

### Final Arrival of New Wires Starts Continuation of Work on Plane

After a delay of over two weeks the new set of wires for the Flying Club plane has arrived and they will be installed as soon as possible. The work of repairing and overhauling the plane has been completed and as soon as the wires are installed it will be ready for use by the members of the Club.

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The following ten Seniors, who are the last men in the Class of '29 to be elected to the fraternity, were chosen from the upper fourth of the class and are as follows: Archibald W. Adkins, Theodore B. Appel, Jr., Henry B. Gibbons, Ralph Vezin, Almer F. Moore, Levon Seron, Fred O. Urban, George J. Meyers, Jr., William H. Jones, Raymond G. Bray.

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Ben Smith '30 is responsible for the colorful cover and the issue will feature full page drawings by Louis H. Mollenkoph '29 and Wayne A. Sovens '30.

## ARTHUR WHITING BEGINS SERIES OF CONCERTS IN ROOM 10-250 TOMORROW

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### Need Acting Talent for Several Skits—First Rehearsal Next Wednesday

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With the material for the Show nearly complete, it now remains to obtain suitable characters to fill the large number of parts. While the number of men who took part in the cast tryouts last Tuesday was great enough to get some actors lined up, it was hardly sufficient to fill the roll of active parts that the Show will require this year.

### Chorus Try-Out Wednesday

Following the cast trials on Tuesday there will be chorus tryouts Wednesday night in North Hall, with Langdon Matthews, dancing coach, in charge. All former "ponies" and all new men who are interested are requested to be present on this occasion. The meeting will start at 7:30 o'clock and will finish when all men have been put through a few standard and new steps.

Due to the fact that this year's Show is to consist of a large number of short skits instead of being in the form of a musical comedy, the number of characters needed is far in excess of that of any former production. The Show is in need of acting talent to fill the numerous parts, and all undergraduates with ability in this line are requested to make their talents known to the management.

Freshmen and Sophomores wishing to become connected with the Show in a managing capacity may make use of the opportunity offered by several vacancies in the Music Department of the organization, leading to the position of Orchestra Manager in their Junior year. Those interested should see Willis Fleisher '31 in the Tech Show office, Walker, any afternoon after 5 o'clock.

### 22 MEMBERS ELECTED BY QUADRANGLE CLUB

### Sophomore Vacancies Filled by Genrich and Roddy

Elections of new members to the Quadrangle Club were made at the second meeting of the year last Tuesday night. At that time two Sophomores and twenty freshmen were chosen as members of the Club. The next meeting of the Club will be held on December 11th at which time final plans will be made for a banquet to be held a week later.

Due to the fact that two of the Sophomore members of the Club did not return to school this fall their vacancies were filled by J. Harold Genrich '31 and Gilbert M. Roddy '31. The members of the freshman class who were elected to the Club are: Joseph E. Paul; John M. Kimble; Thomas B. Rhines; Robert B. Semple; Richard M. Stewart; Thomas E. Sears, Jr.; Edward M. Rickard; Otway W. Rash, Jr.; Avery Bates; Addison S. Ellis; William F. Spreen; Francis O. Merchant; John Lawrence; Peter P. Shelby; Thomas K. Fitzpatrick; Thomas S. Varey; Robert D. Butler; Francis S. Chambers, Jr.; Robert G. Henry, Jr.; and Herbert F. Ross.

### LEADING MUSICAL INTERPRETER WILL EXPLAIN NUMBERS

### Corporation Arranges Fourth Series of Concerts by Noted Musician

### STUDENT BODY INVITED

Mr. Arthur Whiting, one of the leading interpreters of modern music, will present a recital from the works of various music masters to the members of the Corporation, the Faculty, their families and the students of Technology in Room 10-250 tomorrow night at 8:15 o'clock. He will be assisted by two accompanying artists in presenting this program which will be the first of this year's series of Whiting Concerts.

Cooperating with the Corporation of the Institute, Mr. Whiting has already presented three series of three recitals each during the past three years. The programs of these were so designed as to illustrate certain phases and trends of musical thought, and its development since the earliest period.

### Will Explain Each Number

In his introduction at the first concert tomorrow evening Mr. Whiting will give a brief informal talk on the appreciation of music after which he will start the musical program. Then preceding each selection he will give an analysis of it, explaining the theme involved. During his program Mr. Whiting will play the

(Continued on Page 4)

## A.I.E.E. To Hear Charles L. Edgar

### Will Talk on "Opportunities for Graduates in a Public Utility Company"

Mr. Charles L. Edgar, President of the Edison Electric Illuminating Company of Boston, will address the students interested in electrical engineering on Friday, December 7. The subject of the address is "The Opportunities for Engineering Graduates in a Public Utility Company."

The Boston Edison Company is notable among the public utility companies supplying electricity for light and power. Last year it was awarded the Charles A. Coffin Medal, "In recognition of its distinguished contribution to the development of electric light and power for the convenience of the public and the benefit of the industry." As head of this organization, recognized among the foremost in the country, President Edgar is eminently qualified to place before the undergraduates those ideals and policies held by the up-to-date progressive public utility companies.

This meeting is the last of the series held under the auspices of the M. I. T. Branch of the American Institute of Electrical Engineers, for the purpose of acquainting the students of electrical engineering, especially freshmen and Sophomores, with the conditions and opportunities existing in the various branches of the electrical engineering industry. Supper will be served at 6 o'clock in the Faculty dining room in Walker Memorial, followed immediately by President Edgar's address and moving pictures showing the more prominent activities of a public utility company. The meeting will be over by 8 o'clock.

While these meetings are especially for underclassmen, everyone interested in this branch of engineering is cordially invited to both the supper and the meeting. Admission is by ticket, for which there is no charge, and which may be obtained in Room 1-205.

## OFFICIAL BULLETIN

WHITING CONCERTS  
1928-1929 Season

The Whiting Concerts are to be held in Room 10-250 on the following Tuesday evenings:

December 4  
January 15

February 19  
March 5

March 26

## ECONOMICS

The following speaker will lecture before the class in Business Management in Room 1-190:

Mr. R. W. Price  
District Manager, The McCaskey Register Company  
November 28, 9 A. M.  
Subject: "Production Control"

## CIVIL ENGINEERING

A series of lectures by Kenneth C. Reynolds, Instructor in the Department of Civil Engineering, who has been studying in Germany under a John R. Freeman Traveling Scholarship, on

## "Laws of Hydraulic Similitude as Applied to Experiments With Models."

The lectures will be given in Room 1-150, Wednesday, November 28 at 3 P. M. and on December 3 and 5, at hours to be announced.

## CALENDAR

Wednesday, November 28

5:00—Mathematics Club Meeting, Room 4-231.  
6:30—Civil Engineering Society Dinner Meeting, Grill Room, Walker Memorial.  
6:30—Chemical Engineering Society, Grill Room, Walker Memorial.  
8:00—I.I.T. Archimedes Society Dance, North Hall, Walker Memorial.

Saturday, December 1

8:00—Varsity Basketball—M. I. T. vs New Bedford, Hangar Gym.

## NOTICES

T. E. N. PICTURES  
Pictures of T. E. N. staff will be taken today at 5 o'clock in Room 11-004. Please be prompt.

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from 6:30 to 2 A. M.  
HOTEL BRUNSWICK  
EGYPTIAN ROOM



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ENGINEERS IN LINE  
TO SCORE SATURDAY

(Continued from Page 3)

has been doing very well in practice and will get into at least part of this Saturday's contest. Captain Brockleman and Brig. Allen have been doing good work during the past week and have showed up very well in the scrimmages.

By the looks of the team in scrimmage it appears that the Engineers have a very strong quintet. The game this Saturday will be a real test of their ability as the opening game of the season usually brings out a number of things that are not evident in scrimmage. Undoubtedly the Cardinal and Gray should come through with a victory as they have always won their previous games with New Bedford and there is no reason for them not repeating the event.

Punishment Fails  
To Stop Crime Is  
Claim Of LawyerCrime is Employed Of Only  
Uneducated and Idle  
He Asserts

(Continued from Page 1)

according to Mr. Darrow, "Therefore," he stated, "Religion is no guide!"

Is Conscience A Guide  
Mr. Darrow next disposed of conscience as a guide.

"What is it? What does it know?" were his words. "If it knows how does it find out?"

He disposed of conscience by showing that it is not in the human body, that it changes with the times and that different people have different consciences. Therefore it must be only a state of mind. The child gets it from its parents who got it from their parents. The preacher teaches them the teacher helps and then the neighbors take a hand and finally the child has a fine conscience. Thus he showed that conceptions of right and wrong depend on customs and "folk ways" which are always changing."

## Is Punishment Right

The speaker maintained the opinion that punishment is unjust. People say that a person is punished for doing something maliciously and willfully but the speaker maintained that no one has free will. This point he illustrated by showing the importance of a man before his heredity.

Many excuses are given for punishment. It is said to be used to keep others from crime. So Jones must be hanged to keep Smith straight. Rather tough on Jones to say the least. Punishment is an offspring of vengeance and revenge.

"Punishment has not stopped crime." As a case, Mr. Darrow stated that of the burglar, who does not hesitate to shoot to kill if disturbed while plying his trade although he well knows that if he is caught as a burglar he will get five years but if convicted for murder he will hang. "The only people stopped by fear of the punishment are those too weak-kneed to do anything."

## Crime and Poverty

Mr. Darrow stated that if we visit any prison at all, we will find that the people who commit crimes are not rich but poor. We will find very few preachers or doctors or lawyers or carpenters in jail. They have other things to do. It is generally known that people who can make a living do not commit crimes.

Mr. Darrow then gave his theory for stopping crime which consisted of educating people, not through books, but teaching them some trade. People never get anything out of books. "If everybody had an education which would enable them to do something in life, there would be no burglars or murderers. When we stop judging and hating people then we will do away with crime."

Clarence Darrow was well received by the students as evidenced by the well-filled hall and round after round of applause. The students seemed to like his cynical tone and manner and many agreed with him in his view. The many who took advantage of this opportunity to hear this great speaker considered their time well spent.

HARRIERS COMPETE  
IN I.C.A.A.A.A. MEET

(Continued from Page 3)

The sprint between the two leaders when the finish line was in sight was more like that of a half-mile race.

In the freshman race the M. I. T. yearlings took thirteenth place. This event was won by the University of Pennsylvania in the fast time of 15:11. Three Pennsylvania men crossed the line in a dead heat for first place.

The summary:

## Varsity team scores

Penn State	45
Maine	96
Cornell	102
New York U.	119
Syracuse	130
Harvard	167
Dartmouth	169
Columbia	175
Yale	198
M.I.T.	227
Princeton	255
U. of Pennsylvania	314

## Freshman team scores

U. of Pennsylvania	61
Syracuse	65
Penn State	83
Cornell	91
New York U.	95
Dartmouth	202
Manhattan	235
Union	236
Princeton	249
Yale	270
C. C. N. Y.	291
Rutgers	295
M.I.T.	300
Carnegie Tech	327
Columbia	348

Students Indulge in  
Lunar Observations

Many students braved the cold yesterday morning about 3 o'clock to get a glimpse of the eclipse of the moon. After struggling to get out of bed and arousing the courage to go on the roofs of their dwellings, they came down thoroughly disgusted when the fog and clouds did not disclose the object of their wonder. Nevertheless a few patient sufferers saw the red brown haze in the lunar direction and finally convinced themselves that it was the eclipse. Many freshmen wanted to use the Institute telescope to watch it, but they were informed that Technology men do not indulge in star gazing except on certain rare occasions.

A.A. PASSES AWARDS  
OF FIELD DAY TEAMS

Awards of the 1932 numerals to the Field Day football and Tug-of-war teams were passed at a meeting of the M. I. T. A. A. Executive Council which was held at Walker on Monday at 5:15 o'clock. Awards of the 1931 football Field Day team numerals were tabled pending the reception of the new constitution from Dr. Allan W. Rowe '01.

Twenty-three men will receive their numerals for their work on the freshman football team, and twenty-nine will be awarded their numerals for their participation in the Field Day tug-of-war team.

Albert R. Pierce, Jr. '31, was appointed as supervising manager of Football for the Fall of 1929. It was believed that more thorough arrangements could be made if this position was chosen in the Fall instead of in the Spring.

PLAQUE FOR T.C.A.  
HEADS IS STARTED

Heads of the various departments of the T. C. A. will have an opportunity to have their names placed on

## BEST FOOD

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WE HAVE BOTH

## The Esplanade

BRIGHT OUTLOOK FOR  
M.I.T. HOCKEY TEAM

About 45 men attended an enthusiastic hockey mass meeting which started the pucksters on their way to a busy winter season last Monday night. A short talk on the Varsity and freshman hockey schedule for the coming year was given by Manager Snyder, followed by a talk by Captain White on the outlook for this year's team. Coach Russell Dean who has coached the team for the past three years will be back again this year. Practice this year will be held at the new Boston Arena, the men reporting daily at 7 o'clock in the morning.

The prospects for this year are exceedingly bright, the brightest in fact the Institute has had in many a season. With such men back as Captain White, ex-captain Crosby, Peene, Horan, forwards; Riley, and Burke, goalies; Donahue, Fahey, and Lucey, defence; the team should get away to a good start. However the wealth of material does not stop there as such men as Vinn, Paris, Flathley, Ford, Baker, Diverman, Hazeltine, Girade, Lawson, Pear, Goodhand, and Hall are also out for the team, most of these men being from last year's freshman team. Also, Francis Meade and Bill Cullinan, stars on the '27 Varsity team are back in school and are out for the team. In view of the fact that the team is late in getting started this year and also that the Harvard game is only two weeks off, the team will go into intensive training immediately.

a plaque which will be placed in the main office, according to an announcement that was received yesterday.

Each year, the department head who accomplished the most work during the year will be honored by having his name inscribed on the plaque. The announcement of the award will be made in March, when the new officers are elected. This idea will be started this March for the first time, when the president, vice president and treasurer of the T. C. A. will make the choice.

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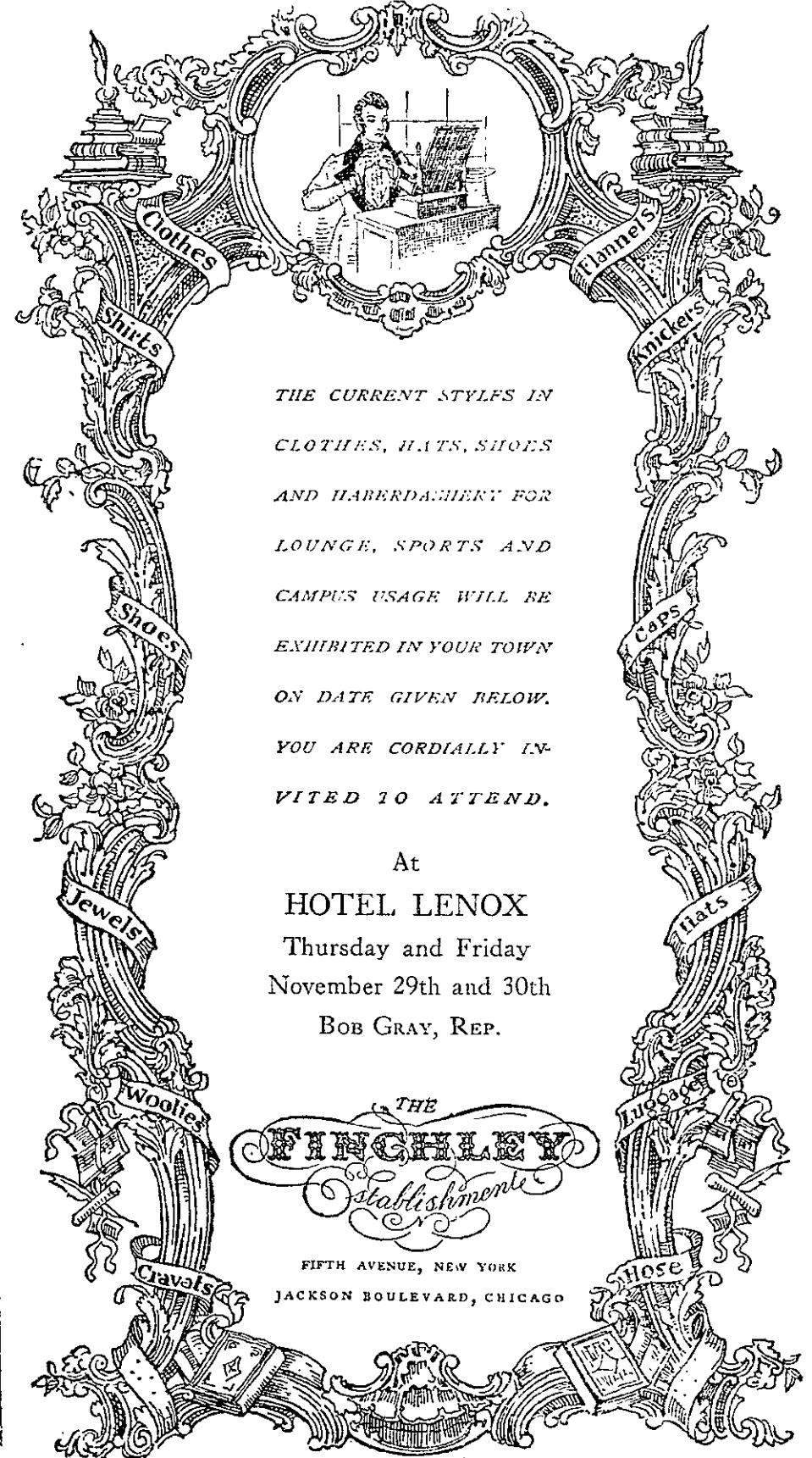
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Vol. XLVIII—No. 74

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Price Five Cents

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### Need Acting Talent for Several Skits—First Rehearsal Next Wednesday

Final cast tryouts for places in Tech Show '29 will be held at 7:30 o'clock tomorrow evening in the Show office in Walker, and every student who can do any kind of acting is requested to report there at this time to Coach William C. Green of the Technology English Department. The first rehearsal will be held Wednesday at the same hour in North Hall, Walker.

With the material for the Show nearly complete, it now remains to obtain suitable characters to fill the large number of parts. While the number of men who took part in the cast tryouts last Tuesday was great enough to get some actors lined up, it was hardly sufficient to fill the roll of active parts that the Show will require this year.

**Chorus Try-Out Wednesday**  
Following the cast trials on Tuesday there will be chorus tryouts Wednesday night in North Hall, with Langdon Matthews, dancing coach, in charge. All former "ponies" and all new men who are interested are requested to be present on this occasion. The meeting will start at 7:30 o'clock and will finish when all men have been put through a few standard and new steps.

Due to the fact that this year's Show is to consist of a large number of short skits instead of being in the form of a musical comedy, the number of characters needed is far in excess of that of any former production. The Show is in need of acting talent to fill the numerous parts, and all undergraduates with ability in this line are requested to make their talents known to the management.

Freshmen and Sophomores wishing to become connected with the Show in a managing capacity may make use of the opportunity offered by several vacancies in the Music Department of the organization, leading to the position of Orchestra Manager in their Junior year. Those interested should see Willis Fleisher '31 in the Tech Show office, Walker, any afternoon after 5 o'clock.

## 22 MEMBERS ELECTED BY QUADRANGLE CLUB

### Sophomore Vacancies Filled by Genrich and Roddy

Elections of new members to the Quadrangle Club were made at the second meeting of the year last Tuesday night. At that time two Sophomores and twenty freshmen were chosen as members of the Club. The next meeting of the Club will be held on December 11th at which time final plans will be made for a banquet to be held a week later.

Due to the fact that two of the Sophomore members of the Club did not return to school this fall their vacancies were filled by J. Harold Genrich '31 and Gilbert M. Roddy '31. The members of the freshman class who were elected to the Club are: Joseph B. Paul; John M. Kimble; Thomas B. Rhines; Robert B. Semple; Richard M. Stewart; Thomas E. Sears, Jr.; Edward M. Rickard; Otway W. Rash, Jr.; Avery Bates; Addison S. Ellis; William F. Spreen; Francis O. Merchant; John Lawrence; Peter P. Shelby; Thomas K. Fitzpatrick; Thomas S. Varey; Robert D. Butler; Francis S. Chambers, Jr.; Robert G. Henry, Jr.; and Herbert F. Ross.

### LEADING MUSICAL INTERPRETER WILL EXPLAIN NUMBERS

### Corporation Arranges Fourth Series of Concerts by Noted Musician

### STUDENT BODY INVITED

Mc. Arthur Whiting, one of the leading interpreters of modern music, will present a recital from the works of various music masters to the members of the Corporation, the Faculty, their families and the students of Technology in Room 10-250 tomorrow night at 8:15 o'clock. He will be assisted by two accompanying artists in presenting this program which will be the first of this year's series of Whiting Concerts.

Cooperating with the Corporation of the Institute, Mr. Whiting has already presented three series of three recitals each during the past three years. The programs of these were so designed as to illustrate certain phases and trends of musical thought, and its development since the earliest period.

**Will Explain Each Number**  
In his introduction at the first concert tomorrow evening Mr. Whiting will give a brief informal talk on the appreciation of music after which he will start the musical program. Then preceding each selection he will give an analysis of it, explaining the theme involved. During his program Mr. Whiting will play the (Continued on Page 4)

## A.I.E.E. To Hear Charles L. Edgar

### Will Talk on "Opportunities for Graduates in a Public Utility Company"

Mr. Charles L. Edgar, President of the Edison Electric Illuminating Company of Boston, will address the students interested in electrical engineering on Friday, December 7. The subject of the address is "The Opportunities for Engineering Graduates in a Public Utility Company."

The Boston Edison Company is notable among the public utility companies supplying electricity for light and power. Last year it was awarded the Charles A. Coffin Medal, "In recognition of its distinguished contribution to the development of electric light and power for the convenience of the public and the benefit of the industry." As head of this organization, recognized among the foremost in the country, President Edgar is eminently qualified to place before the undergraduates those ideals and policies held by the up-to-date progressive public utility companies.

This meeting is the last of the series held under the auspices of the M. I. T. Branch of the American Institute of Electrical Engineers, for the purpose of acquainting the students of electrical engineering, especially freshmen and Sophomores, with the conditions and opportunities existing in the various branches of the electrical engineering industry. Supper will be served at 6 o'clock in the Faculty dining room in Walker Memorial, followed immediately by President Edgar's address and moving pictures, showing the more prominent activities of a public utility company. The meeting will be over by 8 o'clock.

While these meetings are especially for underclassmen, everyone interested in this branch of engineering is cordially invited to both the supper and the meeting. Admission is by ticket, for which there is no charge, and which may be obtained in Room 4-205.

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Walker Memorial, Cambridge, Mass.  
News and Editorial—Room 3, Walker  
Telephone Univ. 7029

Business—Room 302, Walker  
Telephone Univ. 7415

Printer's Telephone—HANcock 5030-1-2

SUBSCRIPTION PRICE, \$2.50 PER YR.  
Published every Monday, Wednesday  
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In charge of this issue:

J. W. Bahr '31  
C. Connable '30

## WHITING CONCERTS

THOUSANDS of people in Boston alone subscribe years ahead to weekly concerts at Symphony Hall; soloists are paid fabulous sums by music-loving audiences; and the music that they listen to has all been developed within the last three hundred years, though based upon the folk songs and dances which preceded. As the mechanics of it, instruments and so on, became more perfect, there appeared from time to time geniuses who could interpret the spirit of the people around them as well as their own feelings, and who could produce those feelings in the form of music.

It is interesting to compare the evolution of music with that of literature, and notice at the same time the various changes in society. There is a peculiar affinity connecting all three. Society is of course the root, but the arts are by no means an imperfect mirror of their times. In recent years there have been radical changes in man's outlook and belief, and everyone who reads must notice that authors are trying to do with books what has never been done before. So have artists changed the form of their expressions; modern music, for instance, uses fundamentally different methods to reach one's emotions.

This is the fourth year that the Institute has arranged for a series of concerts under the direction of Mr. Whiting. They are intended primarily for the students and comprise programs designed to illustrate certain of those phases and trends of musical thought and development. Besides the various analogies which have been indicated, there exists the eternal pleasure of listening to beautiful music—a pleasure and appreciation which increases wonderfully with acquaintance.

## STAFF ELECTIONS AND PROMOTIONS

VOLUME XLVIII of THE TECH takes pleasure in announcing the following elections and promotions, subject to the approval of the Institute Committee in accord with its Points System.

## Promotions

To Assistant to Managing Editor: Carl Connable '30.

To Assistant Circulation Managers: Joseph J. Alkazin '31, John K. Minami '31.

To Assistant Treasurers: David M. Goodman '31, Donald S. Loomis '31.

To Assistant Advertising Managers: Gilbert M. Roddy '31, Robert H. Haberstroh '31, Harmon J. Truax '31.

To Night Editors: Ralph Davis '31, Stuart C. Westerfeld '31, Edwin S. Worden '31.

To Newswriters: John W. Bahr '31, John R. Swanton '31, Myron F. Burr '31.

To the Editorial Board: William B. Schneider '31.

## Elections

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Character Sketches: C. Connable '30.

# ENGINEER FIVE WINS OPENING GAME

## Beat New Bedford 39-15 As Brig Allen and Dave Motter Each Get 5 Goals

Opening their season with a victory, the Cardinal and Gray basketball team defeated New Bedford Textile by a score of 39-15 in the Hangar Gym Saturday night. During the first half the Engineers were unable to break through the New Bedford defense, the score at the end of the half being 10-5 in the Engineers' favor.

At the beginning of the second half Coach McCarthy's cohorts loosened up and succeeded in breaking through the stubborn New Bedford defense. Led by Brig Allen and Captain Brockleman the Cardinal and Gray used a fast passing game that completely baffled the Textile five.

### Motter Plays Well

Dave Motter, a member of last year's freshmen team, showed up exceptionally well in Saturday's game making five baskets and a foul for a total of eleven points. He did not start the game, however, as he was substituted at right guard for McDowell. He ranked next to Brig Allen in scoring honors, getting the same number of field goals, but Brig sank two more fouls.

Captain Brockleman and Brig Allen were up to their usual form with Brockleman tapping the ball to the forwards who rapidly worked the ball down the floor. His passing to Motter and Allen combined with his fine defensive work were the features of the game.

### Rawcliff Outstanding New Bedford Player

Rawcliff led New Bedford's attack by scoring five baskets for a total of ten points. He seemed able to break through the Engineers' defense quite often, and his shots were fairly accurate. Stevens, the Weaver's left guard scored the only other New Bedford goal, the remaining three points coming as a result of fouls.

This game gave Coach McCarthy a chance to size up the team for the game with Boston University next Saturday. The chief defect that the team seems to have is that it is slow in getting started. During the first half, the Cardinal and Gray played a very sluggish game, and their shots were inaccurate.

### M. I. T. 39

	G.	F.	P.
Bates, rf.	0	0	0
Nelson, rf.	1	1	0
Coffee, rf.	0	0	0
Allen, lf.	5	3	2
Brockleman, c.	2	2	1
Harrison, lg.	0	0	0
Lawson, lg.	2	1	1
McDowell, rg.	0	1	0
Motter, rg.	5	1	1
<b>Total</b>	<b>15</b>	<b>9</b>	<b>5</b>

	G.	F.	P.
Rawcliff, rf.	5	1	4
Winsper, rf.	0	0	0
Stevens, lf.	1	1	1
Karl, c.	0	0	2
Sullivan, c.	0	0	0
Pierce, rg.	0	0	3
Adams, rg.	0	1	0
Winsper, lg.	0	0	3
Cook, lg.	0	0	0
<b>Total</b>	<b>6</b>	<b>3</b>	<b>13</b>

Fire recently destroyed the John C. Green School of Science of Princeton University. The damage to the three story stone structure, one of the oldest in the University, was estimated at \$200,000.

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## Football Easier Than Before Says Illinois Mentor

### Coaches Have to Use Brains of Players Under Modern Playing Rules

"Was the old game harder on the players?" asks Bob Zuppke of Illinois in his article, "How Hard Is Football?" in the December College Humor. "From everything I have heard from it from the old-time coaches and players, there is no doubt but that it was." And the Illinois coach goes on to tell of harrowing journeys by old-time football teams with six games to be played in eight days.

Today our college teams play on an average of eight games a season. He says that the teams are not worked so hard nowadays because the coaches are essentially teachers. Good coaches know how much they should load on a man in order that he may not become too much fatigued, physically and mentally.

Many players squawk against the inordinately dull, hard football practice, perhaps because their vanity has been hurt, perhaps because they have been playing on a losing team. For anyone who would be good in anything, however, there is always drudgery. For those who have been raised in a soft, pampered environment, with cars, fur coats, and plenty of women, golf tends to be the more popular sport. The names which appear in the football lineups evidences this: Shelinski, Raskovsky, Nowack. This simply means that the first generation descendants of the newer immigration come from rugged stock and less enervating homes where existence is more of a struggle.

"Don't think of football as a recreation or exercise," Zuppke continues. "It is only the old who talk about such things. In football youth finds the safety valve for his spirit.

Oscar Hedlund's track squad will move to their winter quarters this afternoon when the newly remodelled board track in back of the trackhouse comes into use for the first time. The track men will lose no time in getting ready for the winter's work although the first competition will not come until the last week in January. However the popular handicap meets will be held at regular intervals before that time.

Football is more than a game; it is not a physical expression, although it is expressed physically. It is a symbol of sportsmanship and it is virile drama.

### WINTER TRACK SCHEDULE

Varsity  
Jan. 27—K. of C. games  
Feb. 2—B. A. A. games  
Feb. 9—Millrose games  
  
Freshmen  
Feb. 2—B. A. A. games  
Feb. 16—Brown Freshmen at Providence  
Feb. 27—Huntington School at M. I. T.

## Sports Night Will Be Held in Walker Gym Friday Night

### Gym, Boxing, Wrestling, Fencing, and Basketball Teams to Put on Exhibition

Sports Night will be held Friday December 7 in Walker Gym and all of the indoor sports will be represented and the event promises to be one of the best in many years. The gym, fencing, boxing, wrestling and basketball teams are all planning exhibitions.

Due to the fact that the annual event is going to be held in Walker gym instead of the Hangar, the Gym team will be able to give a much better exhibition than they have given in previous years, as they will be able to use all of their apparatus. Dave Wells is expected to have a series on the high bar and the rings. He has been working hard during the past couple of weeks and has developed a number of new turns. Wes Reynolds will be seen on the rings and parallel bars while Captain Fairchild will be seen in action on the side horse.

While the fencers have no definite plans, they have been practicing consistently for the past couple of weeks and it is expected that they will have several men in trim for the event. The boxers and the wrestlers have not announced their plans, but there will probably be several contests put on by the members of these teams.

As the basketball teams play Boston University on Saturday, it is not known whether they will put on an exhibition or not as the team members will have to conserve their energy for the game on Saturday night. Definite plans for the annual event will be issued later in the week when the team managers turn in their proposed events for the evening.

### FRESHMEN CAGERS TO MEET B.U. SATURDAY

With the first frosh basketball game less than a week away, the team is still unpicked, and probably all of the survivors of the first two cuts will get a chance to play in the first game to prove their worth. Among the candidates trying out for the yearling team are several former captains of prep school teams, who should help to make the frosh team formidable opponents for the B. U. cagers in the Hangar Saturday.

### Sports Desk

Coach McCarthy's Varsity basketball team got away to a good start Saturday night by decisively defeating New Bedford to the tune of 39 to 15. As was expected Brig Allen was the star of the game and was a constant threat to the visitors, tallying his goodly share of the points for the Cardinal and Gray five.

Dave Motter, a member of last year's frosh team was the "find" of the game making five baskets and displaying some real class that should assure him of a place on the Varsity team for the rest of the season. The playing of the team as a whole could have been a great deal better but this was to be expected in the first game of the season.

Oscar Hedlund's track squad will move to their winter quarters this afternoon when the newly remodelled board track in back of the trackhouse comes into use for the first time. The track men will lose no time in getting ready for the winter's work although the first competition will not come until the last week in January. However the popular handicap meets will be held at regular intervals before that time.

Football is more than a game; it is not a physical expression, although it is expressed physically. It is a symbol of sportsmanship and it is virile drama.

## Track Men Take To Boards Today In Preparation For Indoor Winter Schedule

### THREE WINTER MEETS ON TRACK SCHEDULE

#### Hallahan and Ladd Are Back for the Mile Relay Team

Now that the cross country season has passed into history, the winter track season is starting with a bang. The candidates will run on the board track for the first time today, and practice for the relay teams will commence. In less than two months the indoor track season will be in full swing, and Coach Hedlund expects to produce some good relay material before that time. The track has been re-planked this fall and the men are eager for a chance to try it out.

The Varsity will enter three meets this year, as they did last winter. The first of these will be the K. of C. games on January 27. M. I. T. will run a one-mile relay team against Brown in this meet. There is a wealth of Varsity material from which to pick the team, the most promising candidates being Hallahan, Ladd, Earle, Berry, Gonzalez, Riley, Reynolds, Svensson, Ayers, Barrington, Goodhand, and Lappin.

#### Hallahan and Ladd Are Back

Hallahan and Ladd were members of last year's team which defeated Brown in the K. of C. games by more than sixty yards. The other two members of this team were Fay and ex-Captain Meagher. It will be a difficult task to find someone to fill the shoes of these two stars, but with Hallahan and Ladd as a nucleus, a fine team can be developed. Several individual competitors will enter the open handicap events at these games as they did last year, when Worthen placed third in the 1000-yard run, Berry third in the 600, and Benjamin second in the high jump.

On February 2 two teams will enter the B. A. A. games, in the two-mile and one-mile relay races. The one-mile event will be a dual race with Harvard. Last year in this race Meagher did some wonderful running and overcame a lead of twenty yards, only to be beaten out at the tape by one foot, while he was still gaining ground on the Harvard man. The

two-mile race is to be an inter-collegiate affair.

#### Will Run In Millrose Games

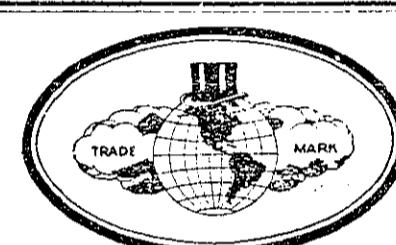
The following week, on February 9, the one-mile relay team will run in the Millrose game. Last year this was a triangular race, with teams from M. I. T., Syracuse and New York University. Syracuse won by six yards and N. Y. U. was a poor third.

If the team can repeat the good work done by last year's men the winter season will be very successful. Intensive training will be in order from now until the first meet. The men will have time trials for the team later on, and much time will be devoted to starts, fast work, and passing the baton.

The leading candidates for the freshman team are Beck, Ellis, Fleming, Gammons, Hall, Hallas, Osterman, Regan, Rogers, Wayne, and Wilson. From these men the coach will select a four-man relay team for the one-mile event.

#### Two Dual Meets For Frosh

Their first meet will be the B. A. A. games on February 2, when they will run in the mile relay. They also have two general meets scheduled to take place before the spring work begins. The first is with Brown freshmen at Providence on February (Continued on Page 4)



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## OFFICIAL BULLETIN

## FACULTY CLUB

Lecture in the Walker Memorial, Faculty Dining Room by:

Mr. Frank E. Winsor

A distinguished engineer, who is in charge of the work for the proposed extension of the Boston

Metropolitan Water System

December 3, 12 Noon

Subject: The Boston Metropolitan Water System

WHITING CONCERTS  
1928-1929 Season

The Whiting Concerts are to be held in Room 10-250 on the following Tuesday evenings:

December 4

February 19

January 15

March 5

March 26

## BIOLOGY AND PUBLIC HEALTH

Sedgwick Biological Society meeting at 8:00 o'clock in the Emma Rogers Room, on Wednesday, December 5.

## CIVIL ENGINEERING

A series of lectures by Kenneth C. Reynolds, Instructor in the Department of Civil Engineering, who has been studying in Germany under a John R. Freeman Traveling Fellowship, on

"Laws of Hydraulic Similitude as Applied to Experiments with Models".

The lectures will be given in Room 1-150, Monday, December 3 at 2 P.M. and on Wednesday, December 5, at 3 P.M.

## ECONOMICS

The following speaker will lecture before the class in Business Management in Room 1-190:

Mr. John J. Gillespie  
of the United Shoe Machinery Corporation

December 7, 2 P.M.

Subject: "Production Control in the Shoe Industry."

## ELECTRICAL ENGINEERING

A colloquium is to be presented by a member of the engineering staff of the Weston Electrical Instrument Company on

"Scientific Problems connected with Electrical Measuring Instruments".

The colloquium will be held in Room 10-275 and will be conducted by

Mr. B. P. Romain

December 3 and 4, 3-5 P.M.

The colloquium is open to members of the junior Honor groups, all seniors, graduate students and staff.

## ALUMNI

Dedication of bas-relief of Mrs. Ellen H. Richards, Room 10-250, at 4 o'clock this afternoon.

## CALENDAR

Monday, December 3

6:00—M. I. T. A. A. Meeting, Committee Room.  
6:00—Women's Ind. Section, Massachusetts Safety Council, Faculty Dining Room.

Tuesday, December 4

6:00—A. I. E. E. Dinner Meeting, Main Hall and North Hall.  
6:15—Boston Geological Society Dinner Meeting, Faculty Dining Room.

Wednesday, December 5

6:00—Corporation XV Dinner Meeting, Grill Room.  
7:00—Mathematics Seminar, M-85, Faculty Dining Room.

7:30—Alpha Chi Sigma Business Meeting, West Lounge.

Thursday, December 6

5:00—Institute Committee Meeting, Faculty Dining Room.  
9:00—Interfraternity Dance, Louis XIV Ballroom, Hotel Somerset.

Friday, December 7

6:00—A. I. E. E. Dinner and Lecture, Main Hall and North Hall.  
9:30—Dorm Dance, North Hall.

Saturday, December 8

8:00—Varsity and freshman Basketball, M. I. T. vs. Boston University, Hangar Gym.

## NOTICES

## GYM TEAM

There are openings for one Sophomore, and two freshmen assistants to the gym manager. Anyone interested

ested in this position should report to the Manager, Thomas MacLaren in Walker Gym any afternoon after five o'clock.

## TECH SHOW TRY-OUTS

The second try-outs for the cast of Tech Show will be conducted by Mr. William C. Green to-morrow night in the Tech Show office, 301 Walker, at 7:30 o'clock. Try-outs for the chorus will be held Wednesday evening in North Hall at the same hour.

## TECH SHOW PICTURES

The Assistant managers' picture will be taken Tuesday morning in Room 11-004 (Basement of Homberg Infirmary) at 8 o'clock. Attendance of freshmen and Sophomores in all departments is required.

## TECH SHOW

There are vacancies in the Music Department open to a few freshmen and Sophomores leading to the position of Orchestra Manager in their Junior Year. See Fleisher in the Tech Show office any afternoon at 5 o'clock or after.

## BOXING TEAM

All members of the Varsity Boxing Team are requested to report at 5 o'clock Tuesday in the basement of the Homberg Infirmary for Technique pictures. The men are urged to be on time, as the picture will be taken regardless of whether the entire team is present or not.

Speaker at Unveiling  
of Richards Memorial

William F. Nickerson '76

STEAM LAB ENGINE  
IS BEING IMPROVEDNew Cylinder is Installed and  
Valve Gear Altered

Changes and improvements are being made on the Fitchburg Uniflow engine in the Steam Laboratory. For two years this engine has been used in the regular testing experiments carried on by students. Now it is desired to make an alteration in the valve gear, and the work is being undertaken by the Fitchburg Engine Company, original manufacturers of the engine.

The expandable type piston valve is being used for both the steam valve and for the auxiliary exhaust valve. It is intended to disconnect the auxiliary exhaust valve gear when the engine is operating condensing. To accomplish this a link is provided in the valve gear which may be easily removed. When the engine is operating non-condensing it is necessary to use the auxiliary exhaust valves in order to prevent excessive compression.

It is expected that the changes will be completed and the engine ready for class work very shortly.

CHI EPSILON ELECTS  
SEVEN NEW MEMBERSBas-Relief by Miss Bashka Paeff  
Presented by Alumni

(Continued from Page 1)

'94, Alice F. Blood '03, R. W. Gilbert, Lois L. Howe '90, Isabel F. Hyams '88, William R. Kales '92, Margaret E. Maltby '91, Eleanor Manning '06, George Truman Palmer '09, Dwight Porter, Lillie C. Smith '06, Alice I. Tyler, Willis R. Whitney '90 and Professor C. E. A. Winslow of Yale University.

Professor Augustus H. Gill will preside at the ceremony and among the speakers will be William E. Nickerson '76, Vice-President of the Gillette Safety Razor Company, Miss Alice F. Blood, one of her pupils, and Mr. James P. Munroe '82, Secretary of the Corporation, who was Mrs. Richards' counsellor in her community work for human conservation.

GRADUATE CHEMISTS  
HOLD FIRST MEETING

Holding its first meeting of the season, the Harvard - Technology Chemical Society will gather at the American Academy of Arts and Sciences, 28 Newbury Street, Boston, next Tuesday evening at 8 o'clock. Professor Walter C. Schumb of Technology will speak on "Inorganic Research at M. I. T." and will be followed by Dr. Robert B. Whitney of Harvard who will discuss the question: "How Will Pressure Affect the Absorption Spectrum of Benzene?" The Harvard - Technology Chemical Society is composed of graduate students and staff members in the Chemical departments of both of these institutions.

RAPID PROGRESS IS  
BEING MADE ON LAB

Rapid progress is being made on the new Internal Combustion Engine Laboratory located behind the Guggenheim Aeronautical Building. At the present time the steel frame work has been entirely set up and riveting complete. The brick work has already begun, and inside of three weeks, barring unfavorable weather, the building will be entirely closed in. This building, which will be Building 13, forms a unit of Technology provided for in the original plans.

## INTERCOLLEGiate

No longer will the wail of the sax or the tiny strumming of the uke be heard in Cambridge, according to the New York Times. The English university has banned jazz instruments from the college halls. The students who live in diggings, that is—those who are at the tender mercies of Cambridge landladies—may tinkle the timbrel and pluck the harp as long and as loud as they wish. Their brothers in residence will confine themselves to more genteel instruments, the piano and violin preferred. The argument is that most of the students in the college halls are last to say that the better trained, the more finely equipped our mothers are in mental capacity, in historical perspective, in constructive imagination, the better citizens our sons will become. Yet that is a truth that must constantly be hammered home to the public mind.

"We must gradually educate our public more fully on several important points, first: that the higher education for a woman does not militate and pays handsomely; second: that women students are on the average more serious and more earnest even than the youths in our colleges.

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harpischord, a fifteenth century instrument, to give a better interpretation of the music of Handel, Campra, Haydn, and other composers. This year Mr. Whiting will be aided by Miss Flora Collins, Soprano, and Mr. George Barrere, one of the leading flutists in the country. The second of these concerts will be given on Tuesday, January 15, in the same place and at the same hour.

## The Program

Mr. Whiting's concert for tomorrow night consists of the following musical numbers:

Flute and Harpsichord

Handel—Sonata, B minor

I. Largo-Vivace

II. Presto

III. Adagio-Gavotta

Soprano

Campra—Charming Butterfly

Haydn—My Mother Bids Me Bind

My Hair

—Mermaid's Song

—Harpischord

Scarlatti—Sonata, D minor

—Sonata, B flat major

—Siciliana, F major

—Sonata, F minor

Flute and Harpsichord

Rameau—Dances from Les Fetes de

L'Hyman — Tambourin —

—Sarabande — Passepied —

—Contradanse en Rondeau

Soprano

Old French

—Quand je menais mes chevaux

poire

—Il etait une bergere

—Disons le Chapelet

—L'etat des filles (with Flute)

—Le Chateau d'Amour

—Les trois Capitaines

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